

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 11092479  
PUBLICATION DATE : 06-04-99

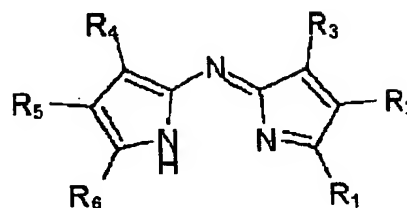
APPLICATION DATE : 17-09-97  
APPLICATION NUMBER : 09252009

APPLICANT : YAMAMOTO CHEM INC;

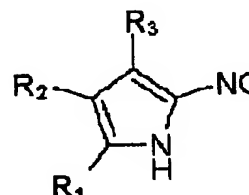
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INT.CL. : C07F 1/08 B41M 5/26 C07F 3/06  
C07F 5/02 C07F 15/04 C09B 55/00  
G11B 7/24 // C09K 3/00

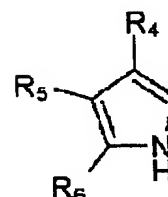
TITLE : OPTICAL RECORDING MEDIUM



I



II



III

ABSTRACT : PROBLEM TO BE SOLVED: To obtain the subject medium allowing the recording and reproduction with a short-wavelength laser and suitable for high-density recording by including a metal chelate compound derived from a specific compound and a metal ion in a recording layer.

SOLUTION: The objective medium is produced by including an azapyrromethene metal chelate compound derived from an azapyrromethene compound of the formula I ( $R_1$  to  $R_6$  are each H, etc.), and a metal ion in a recording layer. The compound of the formula I can be produced by reacting a compound of the formula II with a compound of the formula III in acetic acid. An azapyrromethene metal chelate compound coordinated with the corresponding metal is produced e.g. by reacting the compound of the formula I with baron trifluoride, etc. The medium enables the recording and reproduction with a laser light having a wavelength of 520-690 nm and preferably has a reflectance of  $\geq 30\%$  measured from the substrate side. The recording layer preferably has a refractive index of  $\geq 2.0$  and an extinction coefficient of 0.04-0.20 at the wavelength of the laser light.

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